

PATENT

Attorney Docket No. A-71386-8 Dorsey File No. 463077-00275

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:

Lazar et al

Serial No.:

10/822,231

Filing Date:

March 26, 2004

For:

Optimized Fc Variants and Methods for

Their Generation

Examiner:

Crowder, Chun

Art Unit:

1644

CERTIFICATE OF MAILING

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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163, 10/19/2004, no copies of U.S. patents and U.S. published applications are enclosed. Copies of all other references are enclosed.

Since copies of the references were provided either by the Applicant or the Examiner in the following related U.S. Application: Serial No. U.S.S.N. 10/672,280 filed September 26, 2003; upon which the instant application relies for its priority date, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

- 1. U.S.S.N. 11/396,495, filed March 31, 2006;
- 2. U.S.S.N. 11/174,287, filed June 30, 2005;
- U.S.S.N. 11/124,620, filed May 5, 2005;

05/16/2006 SFELEKE1 00000025 10822231

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- 4. U.S.S.N. 10/672,280 filed September 26, 2003;
- 5. U.S.S.N. 10/379,392 filed March 3, 2003 (now abandoned.)

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

As far as is known to the undersigned, this Information Disclosure Statement is being filed before the payment of the issue fee, with a check for \$180.00, and a statement pursuant to 37 C.F.R. § 1.97(e).

While no fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (File No.: 463077-00275); Docket No. A-71386-8).

By:

Respectfully submitted,

DORSEY & WHITNEY LLP

Timothy A. Worrall, Reg. No. 54,552 for

Robin M. Silva, Reg. No. 38,304

Filed Under 37 C.F.R. § 1.34

Customer Number: 32940

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Substitute PTO/SB/08A for Form 1449A/PTO

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A-71386-8 (463077-00275)

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Complete if Known Substitute for form 1449A/PTO (Modified) Application Number 10/822,231 INFORMATION DISCLOSURE March 26, 2004 Filing Date STATEMENT BY APPLICANT First Named Inventor Lazar, et al. 1644 Art Unit (use as many sheets as necessary) **Examiner Name** Crowder, Chun

Attorney Docket Number

			U.S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-2001/0036459 A1	11-01-2001	Ravetch	
	A2	US-2002/0004587 A1	01-10-2002	Miller, et al.	
	A3	US-2002/0048772 A1	04-25-2002	Dahiyat et al.	
	A4	US-2002/0062010 A1	05-23-2002	Arathoon, et al.	
	A5	US-2002/0090648 A1	07-11-2002	Dahiyat et al.	
	A6	US-2002/0142374 A1	10-03-2002	Gallo, et al.	
	A7	US-2002/0155537 A1	10-24-2002	Carter, et al.	
	A8	US-2002/0164328 A1	11-07-2002	Shinkawa, et al.	
	A9	US-2002/0192222 A1	12-19-2002	Blumberg, et al.	
	A10	US-2003/0012789 A1	01-16-2003	Blumberg, et al.	
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	A12	US-2003/0078385 A1	04-24-2003	Arathoon, et al.	
	A13	US-2003/0105294 A1	06-05-2003	Gilles, et al.	
	A14	US-2003/0108548 A1	06-12-2003	Bluestone, et al.	
	A15	US-2003/0118592 A1	06-26-2003	Ledbetter, et al.	
	A16	US-2003/0130827 A1	07-10-2003	Bentzien et al.	
	A17	US-2003/0133939 A1	07-17-2003	Ledbetter, et al.	
	A18	US-2003/0143682 A1	07-31-2003	Nicolaides, et al.	
	A19	US-2003/0157108 A1	08-21-2003	Presta	
	A20	US-2003/0158289 A1	08-21-2003	Rusin, R. et al.	
	A21	US-2003/0158389 A1	08-21-2003	Idusogie, et al.	
	A22	US-2003/0166868 A1	09-04-2003	Presta, et al.	
	A23	US-2003/0175884 A1	09-18-2003	Umana, et al.	
	A24	US-2003/0190311 A1	10-09-2003	Dall'Acqua, et al.	
	A25	US-2003/0208054 A1	11-06-2003	Olsen, et al.	
	A26	US-2003/0224397 A1	12-04-2003	Lowman, et al.	
	A27	US-2003/0229208 A1	12-11-2003	Queen, et al.	
	A28	US-2003/0235536 A1	12-25-2003	Blumberg, et al.	
	A29	US-2004/0002587 A1	01-01-2004	Watkins, et al.	
	A30	US-2004/0043429 A1	03-04-2004	Dahiyat et al.	

Examiner	Date	
Signature	Conside	ed
Oig.lataro		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

	Substitute for form 1449A/PTO (Modified)		Complete if Known			
			Application Number	10/822,231		
INF	INFORMATION DISCLOSURE			Filing Date	March 26, 2004	
ST	STATEMENT BY APPLICANT		PLICANT	First Named Inventor	Lazar, et al.	
	(use as many sheets as necessary)			Art Unit	1644	
				Examiner Name	Crowder, Chun	
Sheet	2		20	Attorney Docket Number	A-71386-8 (463077-00275)	

			U.S. PATENT	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A31	US-2004/0043430 A1	03-04-2004	Dahiyat et al.	
	A32	US-2004/0062763 A1	04-01-2004	Mosser, et al.	
	A33	US-2004/0185045 A1	09-23-2004	Koenig, et al.	
	A34	US-2004/0191244 A1	09-30-2004	Presta	
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_	A38	US-2004/0258677 A1	12-23-2004	Waldmann, et al.	
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	A40	US-2004/0259150 A1	12-23-2004	Nakamura, et al.	
	A41	US-2005/0014934 A1	01-20-2005	Hinton, et al.	
	A42	US-2005/0031626 A1	02-10-2005	Stevenson	
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	A45	US-2005/0037000 A1	02-17-2005	Stavenhagen, et al.	
	A46	US-2005/0037002 A1	02-17-2005	Velardi, et al.	
	A47	US-2005/0038610 A1	02-17-2005	Mayo et al.	
	A48	US-2005/0054046 A1	03-10-2005	Presta, et al.	
	A49	US-2005/0064514 A1	03-24-2005	Stavenhagen, et al.	
	A50	US-2005/0118174 A1	06-02-2005	Presta	
	A51	US-2005/0152894 A1	07-14-2005	Krummen, et al.	
_	A52	US-2005/0175614 A1	08-11-2005	Ledbetter, et al.	
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	A59	US-2005/0272128 A1	12-08-2005	Umana, et al.	
	A60	US-2005-0276799 A1	12-15-2005	Hinton, et al.	

Examiner	Date	
Signature	Considered	

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	Substitute for for		Complete if Known			
	(Modified)		Application Number	10/822,231		
IN	FORMATION	DISCLOSURE	Filing Date	March 26, 2004		
S	STATEMENT BY APPLICANT		First Named Inventor	Lazar, et al.		
			Art Unit	1644		
(use as many sheets as necessary)			Examiner Name	Crowder, Chun		
Sheet	3	20	Attorney Docket Number	A-71386-8 (463077-00275)		

			U.S. PATENT [OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A61	US-2006/0019316 A1	01-26-2006	Mayo, et al	
	A62	US-4,816,397	03-28-1989	Boss, et al.	
	A63	US-5,225,348	07-06-1993	Nagata, et al.	
	A64	US-5,266,491	11-30-1993	Nagata, et al	
	A65	US-5,328,987	06-12-1994	Maliszewski	-
	A66	US-5,541,087	07-30-1996	Lo, et al.	
	A67	US-5,576,184	11-19-1996	Better, et al.	
	A68	US-5,623,053	04-22-1997	Gastinel et al.	
	A69	US-5,624,821	04-29-1997	Winter, et al.	
	A70	US-5,633,162	05-27-1997	Keen, et al.	
	A71	US-5,648,237	07-15-1997	Carter	
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	A74	US-5,834,597	11-10-1998	Tso, et al.	
	A75	US-5,885,573	03-23-1999	Bluestone, et al.	
	A76	US-6,030,613	02-29-2000	Blumberg, et al.	
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-	A78	US-6,121,022	09-19-2000	Presta, et al.	
	A79	US-6,165,745	12-26-2000	Ward, et al.	
	A80	US-6,188,965 B1	02-13-2001	Mayo et al.	
-	A81	US-6,194,551 B1	02-27-2001	Idusogie, et al.	
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	A85	US-6,331,415 B1	12-18-2001	Cabilly, et al.	
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	A88	US-6,403,312 B1	06-11-2002	Dahiyat et al.	
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Examiner	Date Considered	
Signature	Considered	

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Substitute for form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

	Complete if Known	
Application Number	10/822,231	
Filing Date	March 26, 2004	
First Named Inventor	Lazar, et al.	
Art Unit	1644	
Examiner Name	Crowder, Chun	
Attorney Docket Number	A-71386-8 (463077-00275)	

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	A91	US-6,528,624 B1	03-04-2003	Idusogie , et al.	
	A92	US-6,538,124 B1	03-25-2003	Idusogie, et al.	
	A93	US-6,632,927 B2	10-14-2003	Adair, et al.	
	A94	US-6,649,165 B1	11-18-2003	Schubert	
	A95	US-6,708,120 B1	03-16-2004	Mayo et al.	
	A96	US-6,719,971 B1	04-13-2004	Carter, et al.	
	A97	US-6,737,056 B1	05-18-2004	Presta	
	A98	US-6,792,356 B2	09-14-2004	Mayo et al.	
	A99	US-6,797,492 B2	09-28-2004	Daugherty, et al.	
	A100	US-6,801,861 B2	10-05-2004	Mayo et al.	
	A101	US-6,804,611 B2	10-12-2004	Mayo et al.	
	A102	US-6,821,505 B2	11-23-2004	Ward	
	A103	US-6,821,505 B2	11-23-2004	Ward	
	A104	US-6,933,368 B2	08-23-2005	Co, et al.	
	A105	US-6,946,292 B2	09-20-2005	Kanda, et al.	
	A106	US-6,950,754 B2	09-27-2005	Mayo et al.	
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	B1	WO 00/42072 A2, A3	07-20-2000	Ger	nentech Inc				
	B2	WO 98/47089 A1	11-22-1998	Cali	fornia Institute of Technology				
	B3	EP 1 255 209 A2	11-06-2002	Cali	fornia Institute of Technology				
-	B4	WO 00/23564 A2, A3	04-27-2000	Xen	cor, Inc.				
	B5	WO 01/59066 A2, A3	08-16-2001	Xen	cor, Inc.				
	B6	WO 03/014325 A2, A3	02-20-2003	Xen	cor, Inc.				
	B7	EP 1 255 826 B1	00-13-2002	Xen	cor, Inc.				
	B8	EP 0 268 636 B1	01-08-1997	Mcł	Kenzie, I. F., et al.				
Exami Signat					Date Considered				

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			FOREIGN PATEN	IT DOCUMENTS		
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	В9	EP 0 383 799 B2	02-09-2005	Genentech, Inc.		Γ
	B10	EP 0 383 799 B2	02-09-2005	Genentech, Inc.		Т
	B11	EP 0 753 065 B1	05-14-2003	Celltech Therapeutics Limited		Г
	B12	EP 0 805 628 B1	05-02-2003	Brigham And Women's Hospital, Inc.		
	B13	EP 0 888 125 B1	05-26-2004	Leung, S., et al.		
	B14	EP 0 904 107 B1	10-20-2004	Board of Regents, The University of Texas System		
	B15	EP 1 176 195 A1	01-30-2002	Kyowa Hakko Kogyo Co., Ltd.		
	B16	EP 1 229 125 A1	08-07-2002	Kyowa Hakko Kogyo Co., Ltd.		
	B17	EP 1 323 346 A2, A3	11-26-2003	Brigham And Women's Hospital, Inc.		
	B18	WO 00/09560 A2, A3	02-24-2000	Abgenix, Inc.		
-	B19	WO 00/24782 A2, A3	05-04-2000	Amgen Inc.		
	B20	WO 00/61739 A1	10-19-2000	Kyowa Hakko Kogyo Co. Ltd		Γ
	B21	WO 01/29246 A1	04-26-2001	Kyowa Hakko Kogyo Co., Ltd.		T
	B22	WO 01/38490 A2	05-31-2001	The Trustees of Columbia University in the City of New York		
	B23	WO 01/57088 A1	08-09-2001	Hammarstom, L., et al.		
	B24	WO 02/060919 A2, A3	08-08-2002	Medimmune, Inc.		Γ
-	B25	WO 02/061090 A3	08-08-2002	Genentech, Inc.		
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_	B30	WO 03/016470 A2	02-27-2003	University of Virginia Patent Foundation		
	B31	WO 03/035835 A2, A3	05-01-2003	Genentech, Inc.		
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IN	IFORMATION	DISCLOSURE	Filing Date	March 26, 2004		
S	TATEMENT B	Y APPLICANT	First Named Inventor	Lazar, et al.		
			Art Unit	1644		
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Examiner Initials*			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т°	
	B34	WO 04/004662 A2	01-15-2004	Genentech, Inc.			
	B35	WO 04/004798 A2, A3	01-15-2004	The Brigham and Women's Hospital, Inc., et al.			
	B36	WO 04/016750 A3	02-26-2004	Macrogenics, Inc	<u> </u>		
	B37	WO 04/022717 A2, A3	03-18-2004	The Government of the United States of America as Represented by the Secretary of the Department of Health and Human Services			
	B38	WO 04/024871 A2	03-25-2004	Morphoteck, Inc.			
	B39	WO 04/024889 A2	03-25-2004	Elusys Therapeutics, Inc.			
	B40	WO 04/035752 A2	04-29-2004	Protein Designs Labs, Inc.			
	B41	WO 04/056312 A2	07-08-2004	Genentech, Inc.		Γ	
	B42	WO 04/063351 A2, A3	07-29-2004	Macrogenics, Inc.			
	B43	WO 04/074455 A2, A3	09-02-2004	Applied Molecular Evolution			
	B44	WO 04/092219 A2	10-28-2004	Protein Design Labs, Inc.			
	B45	WO 04/103404 A1	12-02-2004	Applied Molecular Evolution		Г	
	B46	WO 04/110472 A2	12-23-2004	Eli Lilly and Company			
	B47	WO 05/000899 A2	01-06-2005	Biogen Idec Ma Inc.		Г	
	B48	WO 05/001025 A2	01-06-2005	Syntonix, Inc.			
	B49	WO 05/007809 A2	01-27-2005	Alexion Pharmaceuticals, Inc.			
	B50	WO 05/011376 A2	02-10-2005	Biogen Idec Ma Inc.			
	B51	WO 05/012877 A2	02-10-2005	DNA Twopointo Inc.			
	B52	WO 05/116078 A1	12-08-2005	Medexgen, Inc.			
	B53	WO 05/013090 A2	02-10-2005	DNA Twopointo Inc.		Γ	
	B54	WO 05/018572 A2	03-03-2005	Biogen Idec Ma Inc.			
	B55	WO 05/023866 A2	03-17-2005	Baxter International Inc.			
	B56	WO 05/027966 A2	03-31-2005	Genentech, Inc.			
	B57	WO 05/037867 A1	04-28-2005	Protein Design Labs Inc.	·-	Г	

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	Substitute for form 1449A/PTO (Modified)		Complete if Known		
	(Modi	lied)	Application Number	10/822,231	
IN	IFORMATION	DISCLOSURE	Filing Date	March 26, 2004	
S.	TATEMENT B	Y APPLICANT	First Named Inventor	Lazar, et al.	
			Art Unit	1644	
(use as many sheets as necessary)			Examiner Name	Crowder, Chun	
Sheet	7	20	Attorney Docket Number	A-71386-8 (463077-00275)	

			FOREIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
	B58	WO 05/040217 A2	05-06-2005	Cambridge University Technical Services Limited		
	B59	WO 05/047327 A2	05-26-2005	Biogen Idec Ma Inc.		
	B60	WO 05/060642 A2	07-07-2005	Alexion Pharmaceuticals, Inc.		
	B61	WO 05/063815 A2	07-14-2005	Biogen Idec Ma Inc.		
	B62	WO 05/070963 A1	08-04-2005	Applied Molecular Evolution, Inc.		
	B63	WO 05/116078 A1	12-08-2005	Medexgen Inc.		
	B64	WO 05/123780 A2	12-29-2005	Protein Design Labs, Inc.		
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	B68	WO 91/19515 A1	12-26-1991	The Board of Trustees of the Leland Stanford Junior University		
	B69	WO 92/04053 A1	03-19-1992	Bristol-Myers Squibb Company		
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S				First Named Inventor	Lazar, et al.	
				Art Unit	1644	
	(use as many sheets as necessary)			Examiner Name	Crowder, Chun	
Sheet	8		20	Attorney Docket Number	A-71386-8 (463077-00275)	

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	B83	WO 98/05787 A1	02-12-1998	Bristol-Meyers Squibb Company		

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IN	IFORMATION	DISCLOSURE	Filing Date	March 26, 2004
S	STATEMENT BY APPLICANT		First Named Inventor	Lazar, et al.
			Art Unit	1644
(use as many sheets as necessary)		Examiner Name	Crowder, Chun	
Sheet	9	20	Attorney Docket Number	A-71386-8 (463077-00275)

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	(Modi	tied)	Application Number	10/822,231	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	March 26, 2004	
			First Named Inventor	Lazar, et al.	
			Art Unit	1644	
	(use as many shee	ets as necessary)	Examiner Name	Crowder, Chun	
Sheet	10	20	Attorney Docket Number	A-71386-8 (463077-00275)	

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		NON PATENT LITERATURE DOCUMENTS	
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	Substitute for for			Complete if Known
		fied)	Application Number	10/822,231
INFORMATION DISCLOSURE			Filing Date	March 26, 2004
STATEMENT BY APPLICANT		First Named Inventor	Lazar, et al.	
			Art Unit	1644
(use as many sheets as necessary)			Examiner Name	Crowder, Chun
Sheet	12	20	Attorney Docket Number	A-71386-8 (463077-00275)

		NON PATENT LITERATURE DOCUMENTS	
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S	TATEMENT B	Y APPLICANT	First Named Inventor	Lazar, et al.	
			Art Unit	1644	
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Sheet	14	20	Attorney Docket Number	A-71386-8 (463077-00275)	

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IN	FORMATION	DISCLOSURE	Filing Date	March 26, 2004	
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			Application Number	10/822,231	
INF	FORMATION	DISCLOSURE	Filing Date	March 26, 2004	
ST	ATEMENT E	BY APPLICANT	First Named Inventor	Lazar, et al.	
			Art Unit	1644	
	(use as many she	ets as necessary)	Examiner Name	Crowder, Chun	
Sheet 17 20			Attorney Docket Number	A-71386-8 (463077-00275)	

		NON PATENT LITERATURE DOCUMENTS	
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	To
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T°	
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			Art Unit	1644	
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